

534,479

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date  
3 June 2004 (03.06.2004)

PCT

(10) International Publication Number  
**WO 2004/045405 A1**

(51) International Patent Classification<sup>7</sup>: **A61B 5/0416**

(DE). **SCHMIDT, Ralf** [DE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weissstr. 2, 52066 Aachen (DE). **MONTVAY, Andras** [DE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weissstr. 2, 52066 Aachen (DE).

(21) International Application Number:  
**PCT/IB2003/004969**

(74) **Agent: VOLMER, Georg**; Philips Intellectual Property & Standards GmbH, Weissstr. 2, 52066 Aachen (DE).

(22) International Filing Date:  
5 November 2003 (05.11.2003)

(81) **Designated States (national):** AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
02079761.9 15 November 2002 (15.11.2002) EP

(84) **Designated States (regional):** ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(71) Applicant (for DE only): **PHILIPS INTELLECTUAL PROPERTY & STANDARDS GMBH** [DE/DE]; Stein-damm 94, 20099 Hamburg (DE).

Published:

— with international search report

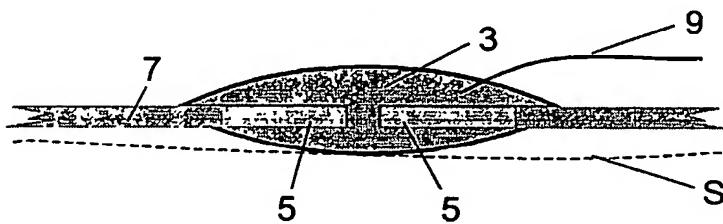
(71) Applicant (for all designated States except DE, US): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **SUCH, Olaf** [DE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weissstr. 2, 52066 Aachen (DE). **LAUTER, Josef** [DE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weissstr. 2, 52066 Aachen (DE). **REITER, Harald** [DE/DE]; c/o Philips Intellectual Property & Standards GmbH, Weissstr. 2, 52066 Aachen

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: **A SYSTEM FOR BIOELECTRICAL INTERACTION WITH AN INDIVIDUAL WITH A SIMPLIFIED ELECTRODE FIXATION**



carrier (7), said carrier being provided with receiving portions (5) to enable said fixation.

(57) **Abstract:** A wearable system (1) arranged to enable a bioelectrical interaction with an individual when being brought into a contact with the individual's skin (S). The system (1) comprises an electronic device with electrodes (3) to enable said interaction. The electrodes (3) are shaped to enable the fixation of the device on a suitable